

ABSTRACT OF THE DISCLOSURE

The present invention provides a leak testing method and system therefore for any type of filtering device employing hollow fibers, such as filtration of aqueous or gaseous fluids, ultrafiltration of particulate materials and dialysis of blood. In an embodiment, the leak test is employed in testing a bundle of fibers placed in a dialyzer. The dialyzer includes a blood inlet and a blood outlet, wherein blood flows through the inside of a plurality of hollow fibers. Dialysate flows into the dialyzer through an inlet port, around the outside of the hollow fibers and out of the dialyzer through an outlet port. The test employs a dry aerosol that is injected into the blood inlet, outlet or both, wherein a particle counter counts particles that pass through the fiber walls and exit one or both the dialysate ports. If the counter detects more than an acceptable amount of particles, the dialyzer has a leak.